



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive Diamond Bar CA 91765

PERMIT TO CONSTRUCT/OPERATE

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Permit No
F51913
A/N 400603

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership
If the billing for annual renewal fee (Rule 301 f) is not received by the expiration date, contact the District

LEGAL OWNER
OR OPERATOR

BOEING REALTY CORPORATION
3760 KILROY AIRPORT WAY STE
LONG BEACH, CA 90806

ID 130928

CC: Bill Pearce
Brian Mossman
Stephanie Siller

Equipment Location 17200 - 1/2 HARBORGATE, TORRANCE, CA 90501

Equipment Description

UNDERGROUND CONTAMINATED SOIL VAPOR EXTRACTION AND CONTROL SYSTEM CONSISTING OF

- 1 VAPOR EXTRACTION WELLS
- 2 KNOCKOUT POT, VAPOR/LIQUID
- 3 BLOWER, 1100 SCFM MAXIMUM
- 4 TWO CARBON ADSORBERS IN SERIES, EACH WITH 8000 POUNDS OF ACTIVATED CARBON

Conditions

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES
- 3) IDENTIFICATION TAGS OR NAMEPLATES SHALL BE DISPLAYED ON THE EQUIPMENT TO SHOW MANUFACTURER MODEL NO AND SERIAL NO THE TAGS OR NAMEPLATES SHALL BE ISSUED BY THE MANUFACTURER AND SHALL BE AFFIXED TO THE EQUIPMENT IN A PERMANENT AND CONSPICUOUS LOCATION
- 4) CURRENT CONTACT PERSON'S NAME, COMPANY AND PHONE NUMBER SHALL BE DISPLAYED IN A PERMANENT AND CONSPICUOUS LOCATION
- 5) UPON COMPLETION ANY VAPOR EXTRACTION WELLS AND DUCTS SHALL BE CAPPED TO PREVENT VAPORS FROM VENTING TO THE ATMOSPHERE VAPORS SHALL NOT BE EXTRACTED FROM THE SOIL UNLESS THEY ARE VENTED TO THE VAPOR CONTROL SYSTEM WITH NO DETECTABLE LEAK BETWEEN THE OUTLET OF THE BLOWER AND THE OUTLET OF THE VAPOR CONTROL SYSTEM

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- 6) A FLOW INDICATOR SHALL BE INSTALLED AND MAINTAINED AT THE INLET TO THE VAPOR CONTROL SYSTEM TO INDICATE THE FLOW RATE IN STANDARD CUBIC FEET PER MINUTE (SCFM) IN CASE A PRESSURE SENSOR DEVICE IS USED IN PLACE OF THE FLOW INDICATOR, A CONVERSION CHART SHALL BE POSTED ON THE EQUIPMENT TO INDICATE THE FLOW RATE (IN CFM) CORRESPONDING TO THE PRESSURE READING
- 7) THE TOTAL FLOW RATE AT THE INLET TO THE VAPOR CONTROL SYSTEM SHALL NOT EXCEED 1100 SCFM
- 8) THE VOLATILE ORGANIC COMPOUNDS (VOC) CONCENTRATIONS SHALL BE MEASURED AT THE INLET, MIDPOINT AND OUTLET OF THE VAPOR CONTROL SYSTEM AT LEAST ONCE EVERY OPERATING DAY FOR THE FIRST 14 DAYS OF OPERATION, THEN ONCE EVERY 7 DAYS OF OPERATION THEREAFTER, BY USING A FLAME IONIZATION DETECTOR OR AN AQMD APPROVED ORGANIC VAPOR ANALYZER (OVA) CALIBRATED IN PARTS PER MILLION BY VOLUME (PPMV) OF HEXANE (IF ANOTHER CALIBRATING AGENT IS USED IT SHALL BE CORRELATED TO AND EXPRESSED AS HEXANE)
- 9) GRAB SAMPLES SHALL BE COLLECTED AT THE INLET TO THE PRIMARY AND THE OUTLET OF THE SECONDARY ADSORBER AT LEAST ONCE DURING THE FIRST WEEK OF OPERATION AND AT THE OUTLET OF THE SECONDARY CARBON ADSORBER ONCE A MONTH THEREAFTER THE GRAB SAMPLES SHALL BE ANALYZED FOR TOTAL ORGANIC CONCENTRATIONS AS HEXANE AND SPECIATED FOR THE COMPOUNDS LISTED BELOW IN ACCORDANCE WITH APPROVED TEST METHODS AFTER EACH TEST, A REPORT SHALL BE PREPARED AND SUBMITTED TO THE TOXIC AND WASTE MANAGEMENT UNIT OF AQMD WITHIN 30 DAYS OF THE DATE OF THE TEST
- 10) THE VOC CONCENTRATION MEASURED AT THE OUTLET OF THE VAPOR CONTROL SYSTEM SHALL NOT EXCEED 20 PPMV AS HEXANE
- 11) EMISSIONS OF THE LISTED COMPOUNDS (AS HEXANE), MEASURED AT THE OUTLET OF THE CONTROL SYSTEM, SHALL NOT EXCEED THE FOLLOWING LIMITS

1,1-DICHLOROETHENE	1 24 PPMV
1,1-DICHLOROETHANE	0 9 PPMV
2-BUTANONE (MEK)	3 1 PPMV
1,1,1-TRICHLOROETHANE	15 5 PPMV
TRICHLOROETHANE	4 3 PPMV
1,1,2-TRICHLOROETHANE	0 2 PPMV
BENZENE	0 3 PPMV
METHYLENE CHLORIDE	0 14PPMV
1,2-DICHLOROETHENE	0 11PPMV
TOLUENE	0 92 PPMV
XYLENE	0 16 PPMV
PERCHLOROETHYLENE	0 05 PPMV
CHLOROFORM	0 05 PPMV
ETHYLBENZENE	0 05 PPMV

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- 12) THIS EQUIPMENT SHALL NOT BE USED TO TREAT OR EXTRACT VAPORS FROM SOILS CONTAMINATED WITH ANY RULE 1401 COMPOUNDS (AS AMENDED JUNE 15, 2001) OTHER THAN THE FOLLOWING
- 1,1-DICHLOROETHENE
 - 1,1-DICHLOROETHANE
 - 2-BUTANONE (MEK)
 - 1,1,1-TRICHLOROETHANE
 - TRICHLOROETHENE
 - 1,1,2-TRICHLOROETHANE
 - BENZENE
 - METHYLENE CHLORIDE
 - 1,2-DICHLOROETHENE
 - TOLUENE
 - XYLENE
 - PERCHLOROETHYLENE
 - CHLOROFORM
 - ETHYLBENZENE
- 13) WHENEVER THE VOC CONCENTRATION MEASURED AT THE OUTLET OF THE PRIMARY ADSORBER REACHES 20 PPMV, AS HEXANE, THE VAPOR CONTROL SYSTEM SHALL BE SHUT DOWN AND THE PRIMARY ADSORBER REPLACED WITH FRESH CARBON OR WITH THE SECONDARY VESSEL AND THE SECONDARY VESSEL REPLACED WITH FRESH CARBON (CARBON WITH CTC ACTIVITY NUMBER AT LEAST 60, ASTM D3467)
- 14) THE CARBON ADSORBERS SHALL BE CONNECTED IN SERIES EACH CARBON ADSORBER SHALL CONTAIN A MINIMUM OF 8000 POUNDS OF ACTIVATED CARBON
- 15) THE STACK HEIGHT SHALL BE A MINIMUM OF 14'-0" ABOVE GRADE
- 16) RECORDS SHALL BE MAINTAINED TO VERIFY COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT

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THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES

EXECUTIVE OFFICER

SOUTH COAST
AIR QUALITY MANAGEMENT DISTRICT
CERTIFIED COPY *Noema Martins*

Dorris M Bailey

By Dorris M Bailey/tk01
5/07/2002

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